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CLAIMS

- Plywood, comprising at least two wood veneer layers and at least one adhesive layer, whereby the adhesive layer comprises a resin composition comprising a triazine compound (T), formaldehyde (F) and optionally urea, characterized in that the molar F/(NH₂)₂ ratio of the adhesive layer lies between 0.70 and 1.10 and the molar F/T ratio of the adhesive layer lies between 1.0 and 3.5.
- Plywood according to claim 1, wherein the triazine compound is melamine (M)
 and the molar F/M ratio of the adhesive layer lies between 1.0 and 3.5.
 - 3. Plywood according to claim 2, wherein the molar F/(NH₂)₂ ratio of the resin composition lies between 0.70 and 1.10 and the molar F/M ratio of the resin composition lies between 1.0 and 3.5.
- 4. Plywood according to claim 2, wherein the molar F/(NH₂)₂ ratio of the adhesive layer lies between 0.80 and 1.05 and the molar F/M ratio of the adhesive layer lies between 1.0 and 3.5.
 - 5. Plywood according to claim 4, wherein the molar F/(NH₂)₂ ratio of the resin composition lies between 0.80 and 1.05 and the molar F/M ratio of the resin composition lies between 1.0 and 3.5.
- Plywood according to any one of claims 2 5, wherein at least 60 wt% of the melamine in the adhesive layer and at least 40 wt% of the urea in the adhesive layer originates from addition during preparation of the resin composition.
- 7. Plywood according to any one of claims 1 6, wherein the solids content of the adhesive layer prior to curing is at least 50 wt.%.
 - 8. Plywood according to claim 1, wherein the amount of urea in the adhesive layer lies between 0 and 25 g/m² per adhesive layer.
 - Plywood according to claim 8, wherein the adhesive layer contains essentially no phenolic resin and wherein the adhesive layer contains essentially no pMDI resin.
 - 10. Plywood according to any one of claims 1 9, having an average F-emission according to JAS 987 2000 which is at most 0.5 mg/l.
 - 11. Plywood according to claim 10, having an average F-emission according to JAS 987 2000 which is at most 0.3 mg/l.
- 35 12. Plywood according to claim 10 or 11, wherein the plywood has a shear

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- strength according to JAS 987 2000 of at least 4 kg/cm².
- 13. Plywood according to any one of claims 1 12, wherein at least one wood layer contains yellow or red meranti.
- 14. Process for the preparation of plywood, comprising the steps of:
- a) preparing a resin composition comprising melamine (M), formaldehyde (F) and optionally urea;
 - b) preparing an adhesive composition, comprising the resin composition and optionally other compounds, whereby the molar F/(NH₂)₂ ratio of the adhesive layer lies between 0.70 and 1.10 and the molar F/M ratio of the adhesive layer lies between 1.0 and 3.5;
 - applying the adhesive composition to at least one side of a wood layer,
 whereby at least one adhesive layer is formed;
 - d) bringing the at least one adhesive layer into contact with a second wood layer so that a plywood is formed;
- e) curing the plywood.
 - 15. Process according to claim 14, wherein the adhesive composition is applied in step c) in an amount lying between 75 and 250 g/m² per adhesive layer.
- Plywood, comprising at least two wood veneer layers and at least one adhesive layer, whereby the adhesive layer comprises a resin composition comprising a triazine compound (T), formaldehyde (F) and optionally urea, characterised in that the amount of urea in the adhesive layer lies between 0 and 25 g/m² per adhesive layer and in that the plywood has a shear strength according to JAS 987 2000 of at least 4 kg/cm².
- Plywood according to claim 14, wherein the triazine compound consists essentially of melamine.

